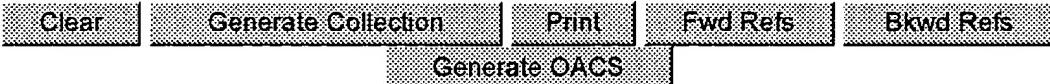


Hit List



Search Results - Record(s) 1 through 4 of 4 returned.

1. Document ID: US 20040127954 A1

Using default format because multiple data bases are involved.

L29: Entry 1 of 4

File: PGPB

Jul 1, 2004

PGPUB-DOCUMENT-NUMBER: 20040127954

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040127954 A1

TITLE: Methods for treating central nervous system damage

PUBLICATION-DATE: July 1, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|-----------------------|-----------|-------|---------|---------|
| McDonald, John W. III | St. Louis | MO | US | |

US-CL-CURRENT: 607/48

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIMC](#) | [Drawn D](#)

2. Document ID: US 20040062786 A1

L29: Entry 2 of 4

File: PGPB

Apr 1, 2004

PGPUB-DOCUMENT-NUMBER: 20040062786

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040062786 A1

TITLE: Method and system for modelling bone structure

PUBLICATION-DATE: April 1, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|-----------------------|--------------|-------|---------|---------|
| Ascenzi, Maria-Grazia | Santa Monica | CA | US | |
| Kabo, John M. | Los Angeles | CA | US | |

US-CL-CURRENT: 424/423; 703/11

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIMC](#) | [Drawn D](#)

3. Document ID: US 20030216899 A1

L29: Entry 3 of 4

File: PGPB

Nov 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030216899

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030216899 A1

TITLE: Multidirectional morphology and mechanics of osteonic lamellae

PUBLICATION-DATE: November 20, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|-----------------------|--------------|-------|---------|---------|
| Ascenzi, Maria-Grazia | Santa Monica | CA | US | |
| Kabo, John M. | Los Angeles | CA | US | |

US-CL-CURRENT: 703/11

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KUMC](#) | [Draw](#) | [D](#)**4. Document ID: US 6451543 B1**

L29: Entry 4 of 4

File: USPT

Sep 17, 2002

US-PAT-NO: 6451543

DOCUMENT-IDENTIFIER: US 6451543 B1

TITLE: Lipid matrix-assisted chemical ligation and synthesis of membrane polypeptides

DATE-ISSUED: September 17, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-------------------------|---------------|-------|----------|---------|
| Kochendoerfer; Gerd. G. | Oakland | CA | | |
| Hunter; Christie L. | San Francisco | CA | | |
| Kent; Stephen B. H. | San Francisco | CA | | |
| Botti; Paolo | San Francisco | CA | | |

US-CL-CURRENT: 435/7.1; 424/450, 435/870, 436/501, 436/544, 436/87, 436/88, 436/89,
436/90, 530/334, 530/359, 530/400, 530/402, 530/404, 530/408[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KUMC](#) | [Draw](#) | [D](#)[Clear](#) | [Generate Collection](#) | [Print](#) | [Fwd Refs](#) | [Bkwd Refs](#) | [Generate OACS](#)

Term

Documents

| | |
|--|--------|
| "THREE DIMENSION\$6" | 0 |
| 3D | 170411 |
| 3DS | 298 |
| 3-DIMENSION6 | 0 |
| 3-DIMENSION6S | 0 |
| "3 DIMENSION\$6" | 0 |
| THREE-DIMENSION\$6 | 0 |
| THREE-DIMENSION | 2449 |
| THREE-DIMENSIONA | 39 |
| THREE-DIMENSIONAA | 1 |
| THREE-DIMENSIONAAL | 2 |
| (L28 AND (THREE-DIMENSION\$6 OR "THREE DIMENSION\$6" OR "3D" OR "3-DIMENSION\$6" OR "3 DIMENSION\$6")).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD. | 4 |

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1. Document ID: US 20040210130 A1

Using default format because multiple data bases are involved.

L62: Entry 1 of 21

File: PGPB

Oct 21, 2004

PGPUB-DOCUMENT-NUMBER: 20040210130

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040210130 A1

TITLE: Method and apparatus for magnetic resonance imaging of arteries using a magnetic resonance contrast agent

PUBLICATION-DATE: October 21, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|-------------------|-----------|-------|---------|---------|
| Prince, Martin R. | Ann Arbor | MI | US | |

US-CL-CURRENT: 600/420; 324/307, 324/309

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [DINIC](#) | [Grant De](#)

2. Document ID: US 20040147830 A1

L62: Entry 2 of 21

File: PGPB

Jul 29, 2004

PGPUB-DOCUMENT-NUMBER: 20040147830

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040147830 A1

TITLE: Method and system for use of biomarkers in diagnostic imaging

PUBLICATION-DATE: July 29, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---------------------------------|-----------|-------|---------|---------|
| Parker, Kevin J. | Rochester | NY | US | |
| Tamez-Pena, Jose | Rochester | NY | US | |
| Totterman, Saara Marjatta Sofia | Rochester | NY | US | |
| Ashton, Edward | Webster | NY | US | |

US-CL-CURRENT: 600/407; 128/920, 128/922, 382/128, 600/426

[Full] [Title] [Citation] [Front] [Review] [Classification] [Date] [Reference] [Sequences] [Attachments] [Claims] [KINIC] [Drawings]

3. Document ID: US 20040066955 A1

L62: Entry 3 of 21

File: PGPB

Apr 8, 2004

PGPUB-DOCUMENT-NUMBER: 20040066955

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040066955 A1

TITLE: Method and system for assessment of biomarkers by measurement of response to stimulus

PUBLICATION-DATE: April 8, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---------------------------------|-----------|-------|---------|---------|
| Tamez-Pena, Jose | Rochester | NY | US | |
| Totterman, Saara Marjatta Sofia | Rochester | NY | US | |
| Ashton, Edward | Webster | NY | US | |

US-CL-CURRENT: 382/128; 382/107, 382/154, 382/190, 382/203

[Full] [Title] [Citation] [Front] [Review] [Classification] [Date] [Reference] [Sequences] [Attachments] [Claims] [KINIC] [Drawings]

4. Document ID: US 20030163036 A1

L62: Entry 4 of 21

File: PGPB

Aug 28, 2003

PGPUB-DOCUMENT-NUMBER: 20030163036

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030163036 A1

TITLE: Method and apparatus for magnetic resonance imaging of arteries using a magnetic resonance contrast agent

PUBLICATION-DATE: August 28, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|-------------------|-----------|-------|---------|---------|
| Prince, Martin R. | Ann Arbor | MI | US | |

US-CL-CURRENT: 600/420

[Full] [Title] [Citation] [Front] [Review] [Classification] [Date] [Reference] [Sequences] [Attachments] [Claims] [KINIC] [Drawings]

5. Document ID: US 20030135103 A1

L62: Entry 5 of 21

File: PGPB

Jul 17, 2003

PGPUB-DOCUMENT-NUMBER: 20030135103
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030135103 A1

TITLE: Three-dimensional phase contrast imaging using interleaved projection data

PUBLICATION-DATE: July 17, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|-----------------------|---------|-------|---------|---------|
| Mistretta, Charles A. | Madison | WI | US | |

US-CL-CURRENT: 600/410

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KWC](#) | [Drawn Dr](#)

6. Document ID: US 20030095696 A1

L62: Entry 6 of 21

File: PGPB

May 22, 2003

PGPUB-DOCUMENT-NUMBER: 20030095696
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030095696 A1

TITLE: System, method and apparatus for small pulmonary nodule computer aided diagnosis from computed tomography scans

PUBLICATION-DATE: May 22, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|--------------------|-------------|-------|---------|---------|
| Reeves, Anthony P. | Ithaca | NY | US | |
| Yankelevitz, David | Brooklyn | NY | US | |
| Henske, Claudia | New York | NY | US | |
| Chan, Antoni | Forth Worth | TX | US | |

US-CL-CURRENT: 382/131; 382/173, 382/260

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KWC](#) | [Drawn Dr](#)

7. Document ID: US 20030088177 A1

L62: Entry 7 of 21

File: PGPB

May 8, 2003

PGPUB-DOCUMENT-NUMBER: 20030088177
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030088177 A1

TITLE: System and method for quantitative assessment of neurological diseases and the change over time of neurological diseases

PUBLICATION-DATE: May 8, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---------------------------------|-----------|-------|---------|---------|
| Totterman, Saara Marjatta Sofia | Rochester | NY | US | |
| Tamez-Pena, Jose | Rochester | NY | US | |
| Ashton, Edward | Webster | NY | US | |
| Parker, Kevin J. | Rochester | NY | US | |

US-CL-CURRENT: 600/414

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIN/C](#) | [Drawings](#)

8. Document ID: US 20030072479 A1

L62: Entry 8 of 21

File: PGPB

Apr 17, 2003

PGPUB-DOCUMENT-NUMBER: 20030072479

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030072479 A1

TITLE: System and method for quantitative assessment of cancers and their change over time

PUBLICATION-DATE: April 17, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---------------------------------|-----------|-------|---------|---------|
| Sofia Totterman, Saara Marjatta | Rochester | NY | US | |
| Tamez-Pena, Jose | Rochester | NY | US | |
| Ashton, Edward | Webster | NY | US | |
| Parker, Kevin J. | Rochester | NY | US | |

US-CL-CURRENT: 382/131; 382/103, 382/107, 382/154, 382/173

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIN/C](#) | [Drawings](#)

9. Document ID: US 20030047083 A1

L62: Entry 9 of 21

File: PGPB

Mar 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030047083

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030047083 A1

TITLE: Method and apparatus for magnetic resonance imaging of arteries using a magnetic resonance contrast agent

PUBLICATION-DATE: March 13, 2003

INVENTOR-INFORMATION:

| | | | | |
|-------------------|-----------|-------|---------|---------|
| NAME | CITY | STATE | COUNTRY | RULE-47 |
| Prince, Martin R. | Ann Arbor | MI | US | |

US-CL-CURRENT: 99/325; 99/486[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KUMC](#) | [Draw](#) | [De](#)

 10. Document ID: US 20030036083 A1

L62: Entry 10 of 21

File: PGPB

Feb 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030036083

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030036083 A1

TITLE: System and method for quantifying tissue structures and their change over time

PUBLICATION-DATE: February 20, 2003

INVENTOR-INFORMATION:

| | | | | |
|---------------------------------|-----------|-------|---------|---------|
| NAME | CITY | STATE | COUNTRY | RULE-47 |
| Tamez-Pena, Jose | Rochester | NY | US | |
| Totterman, Saara Marjatta Sofia | Rochester | NY | US | |
| Ashton, Edward | Webster | NY | US | |
| Parker, Kevin J. | Rochester | NY | US | |

US-CL-CURRENT: 435/6; 382/128, 435/7.1, 600/300, 702/19[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KUMC](#) | [Draw](#) | [De](#)

 11. Document ID: US 20030035773 A1

L62: Entry 11 of 21

File: PGPB

Feb 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030035773

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030035773 A1

TITLE: System and method for quantitative assessment of joint diseases and the change over time of joint diseases

PUBLICATION-DATE: February 20, 2003

INVENTOR-INFORMATION:

| | | | | |
|---------------------------------|-----------|-------|---------|---------|
| NAME | CITY | STATE | COUNTRY | RULE-47 |
| Sofia Totterman, Saara Marjatta | Rochester | NY | US | |
| Tamez-Pena, Jose | Rochester | NY | US | |
| Ashton, Edward | Webster | NY | US | |

Parker, Kevin J. Rochester NY US

US-CL-CURRENT: 424/9.1; 382/128, 600/300, 702/19

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KMC | Draw |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|------|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|------|

□ 12. Document ID: US 20010034483 A1

L62: Entry 12 of 21

File: PGPB

Oct 25, 2001

PGPUB-DOCUMENT-NUMBER: 20010034483

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010034483 A1

TITLE: Method and apparatus for magnetic resonance imaging of arteries using a magnetic resonance contrast agent

PUBLICATION-DATE: October 25, 2001

INVENTOR-INFORMATION:

| NAME | CITY | STATE | country | RULE-47 |
|-------------------|-----------|-------|---------|---------|
| Prince, Martin R. | Ann Arbor | MI | US | |

US-CL-CURRENT: 600/420

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KMIC | Drawn |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|-------|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|-------|

13. Document ID: US 6836557 B2

L62: Entry 13 of 21

File: USPT

Dec 28, 2004

US-PAT-NO: 6836557

DOCUMENT-IDENTIFIER: US 6836557 B2

TITLE: Method and system for assessment of biomarkers by measurement of response to stimulus

DATE-ISSUED: December 28, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---------------------------------|-----------|-------|----------|---------|
| Tamez-Pena; Jose | Rochester | NY | | |
| Totterman; Saara Marjatta Sofia | Rochester | NY | | |
| Ashton; Edward | Webster | NY | | |

US-CL-CURRENT: 382/128

| Full | Title | Citation | Front | Reviewed | Classification | Date | Reference | | | Claims | KUMC | Drawn |
|------|-------|----------|-------|----------|----------------|------|-----------|--|--|--------|------|-------|
|------|-------|----------|-------|----------|----------------|------|-----------|--|--|--------|------|-------|

14. Document ID: US 6754521 B2

L62: Entry 14 of 21

File: USPT

Jun 22, 2004

US-PAT-NO: 6754521

DOCUMENT-IDENTIFIER: US 6754521 B2

TITLE: Method and apparatus for magnetic resonance imaging of arteries using a magnetic resonance contrast agent

DATE-ISSUED: June 22, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-------------------|-----------|-------|----------|---------|
| Prince; Martin R. | Ann Arbor | MI | 48105 | |

US-CL-CURRENT: 600/420; 324/309[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Drawings](#) | [Claims](#) | [DMM](#) | [Drawn D](#) 15. Document ID: US 6741881 B2

L62: Entry 15 of 21

File: USPT

May 25, 2004

US-PAT-NO: 6741881

DOCUMENT-IDENTIFIER: US 6741881 B2

** See image for Certificate of Correction **

TITLE: Method and apparatus for magnetic resonance imaging of arteries using a magnetic resonance contrast agent

DATE-ISSUED: May 25, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-------------------|-----------|-------|----------|---------|
| Prince; Martin R. | Ann Arbor | MI | 48105 | |

US-CL-CURRENT: 600/420; 324/307, 324/309[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Drawings](#) | [Claims](#) | [DMM](#) | [Drawn D](#) 16. Document ID: US 6526305 B1

L62: Entry 16 of 21

File: USPT

Feb 25, 2003

US-PAT-NO: 6526305

DOCUMENT-IDENTIFIER: US 6526305 B1

TITLE: Method of fiber reconstruction employing data acquired by magnetic resonance imaging

DATE-ISSUED: February 25, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|--------------|---------------|-------|----------|---------|
| Mori; Susumu | Ellicott City | MD | | |

US-CL-CURRENT: 600/410; 128/920, 324/309, 600/419

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KOMC](#) | [Draw](#)

17. Document ID: US 6463318 B2

L62: Entry 17 of 21

File: USPT

Oct 8, 2002

US-PAT-NO: 6463318

DOCUMENT-IDENTIFIER: US 6463318 B2

TITLE: Method and apparatus for magnetic resonance imaging of arteries using a magnetic resonance contrast agent

DATE-ISSUED: October 8, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-------------------|-----------|-------|----------|---------|
| Prince; Martin R. | Ann Arbor | MI | 48105 | |

US-CL-CURRENT: 600/420; 324/307, 324/309

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KOMC](#) | [Draw](#)

18. Document ID: US 6240311 B1

L62: Entry 18 of 21

File: USPT

May 29, 2001

US-PAT-NO: 6240311

DOCUMENT-IDENTIFIER: US 6240311 B1

TITLE: Method and apparatus for magnetic resonance imaging of arteries using a magnetic resonance contrast agent

DATE-ISSUED: May 29, 2001

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-------------------|-----------|-------|----------|---------|
| Prince; Martin R. | Ann Arbor | MI | 48105 | |

US-CL-CURRENT: 600/420; 324/307, 324/309

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KOMC](#) | [Draw](#)

19. Document ID: US 5792056 A

L62: Entry 19 of 21

File: USPT

Aug 11, 1998

US-PAT-NO: 5792056

DOCUMENT-IDENTIFIER: US 5792056 A

TITLE: Method and apparatus for magnetic resonance imaging of arteries using a magnetic resonance contrast agent

DATE-ISSUED: August 11, 1998

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-------------------|-----------|-------|----------|---------|
| Prince; Martin R. | Ann Arbor | MI | 48105 | |

US-CL-CURRENT: 600/420; 324/307, 324/309

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KUDOC](#) | [Drawings](#) 20. Document ID: US 5590654 A

L62: Entry 20 of 21

File: USPT

Jan 7, 1997

US-PAT-NO: 5590654

DOCUMENT-IDENTIFIER: US 5590654 A

TITLE: Method and apparatus for magnetic resonance imaging of arteries using a magnetic resonance contrast agent

DATE-ISSUED: January 7, 1997

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-------------------|-----------|-------|----------|---------|
| Prince; Martin R. | Ann Arbor | MI | 48105 | |

US-CL-CURRENT: 600/420; 324/309

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KUDOC](#) | [Drawings](#) 21. Document ID: US 5245282 A

L62: Entry 21 of 21

File: USPT

Sep 14, 1993

US-PAT-NO: 5245282

DOCUMENT-IDENTIFIER: US 5245282 A

TITLE: Three-dimensional magnetic resonance imaging

DATE-ISSUED: September 14, 1993

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|----------------------|-----------------|-------|----------|---------|
| Mugler, III; John P. | Charlottesville | VA | | |
| Brookeman; James R. | Charlottesville | VA | | |

US-CL-CURRENT: 324/309

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [View](#) | [Drawn](#) | [Print](#)

[Clear](#) | [Generate Collection](#) | [Print](#) | [Fwd Refs](#) | [Bkwd Refs](#) | [Generate OACS](#)

| Term | Documents |
|---|-----------|
| GREATER | 3074066 |
| GREATERS | 15 |
| RESOLUTION | 445361 |
| RESOLN | 403 |
| RESOLNS | 5 |
| RESOLUTIONS | 25316 |
| "THREE DIMENSION\$6" | 0 |
| 3D | 170411 |
| 3DS | 298 |
| 3-DIMENSION6 | 0 |
| 3-DIMENSION6S | 0 |
| (L61 AND (ISOTROPIC\$6) WITH (((HIGH\$4 OR IMPROV\$3 OR INCREASE\$3 OR GREATER) WITH (RESOLV\$8 OR RESOLUTION)) WITH (THREE-DIMENSION\$6 OR "THREE DIMENSION\$6" OR "3D" OR "3-DIMENSION\$6" OR "3 DIMENSION\$6" OR "3-D" OR (VOXEL OR (VOLUME WITH ELEMENT))))).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD. | 21 |

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L53: Entry 1 of 1

File: PGPB

Dec 4, 2003

PGPUB-DOCUMENT-NUMBER: 20030223627
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030223627 A1

TITLE: Method for computer-aided detection of three-dimensional lesions

PUBLICATION-DATE: December 4, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---------------------|------------|-------|---------|---------|
| Yoshida, Hiroyuki | Chicago | IL | US | |
| Dachman, Abraham | Chicago | IL | US | |
| Nappi, Janne | Chicago | IL | US | |
| Maceneaney, Peter | Chicago | IL | US | |
| Rubin, David | Chicago | IL | US | |
| Masutani, Yoshitaka | Tokyo | IL | JP | |
| Lan, Li | Naperville | | US | |

ASSIGNEE-INFORMATION:

| NAME | CITY | STATE | COUNTRY | TYPE CODE |
|-----------------------|---------|-------|---------|-----------|
| University of Chicago | Chicago | IL | | 02 |

APPL-NO: 10/ 270674 [PALM]
DATE FILED: October 16, 2002

RELATED-US-APPL-DATA:

Application is a non-provisional-of-provisional application 60/329322, filed October 16, 2001,

INT-CL: [07] G06 K 9/00, G06 K 9/46, G06 K 9/66

US-CL-PUBLISHED: 382/128; 382/190, 382/154
US-CL-CURRENT: 382/128; 382/154, 382/190

REPRESENTATIVE-FIGURES: 1

ABSTRACT:

A method, system, and computer program product for identifying at least one three-dimensionally extended lesion within a volumetric region encompassing an inner surface, an outer surface, and intervening tissue of a target organ. The method includes: (1) generating a set of voxels representing a total scanned volume from a set of cross-sectional images of the target organ; (2) performing segmentation to extract a set of voxels representing the volumetric region from the set of voxels

representing the total scanned volume; (3) detecting a set of candidate lesions based on geometric feature values of each voxel in the set of voxels representing the volumetric region; and (4) selecting the at least one three-dimensionally extended lesion from the set of candidate lesions based on at least one of volumetric, morphologic, and texture feature values of each lesion in the set of candidate lesions.

CROSS-REFERENCE TO CO-PENDING APPLICATIONS

[0001] The present application is related to and claims priority to U.S. Provisional Application Serial No. 60/329,322, filed Oct. 16, 2001. The contents of that application are incorporated herein by reference.

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1. Document ID: US 20030223627 A1

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L53: Entry 1 of 1

File: PGPB

Dec 4, 2003

PGPUB-DOCUMENT-NUMBER: 20030223627

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DOCUMENT-IDENTIFIER: US 20030223627 A1

TITLE: Method for computer-aided detection of three-dimensional lesions

PUBLICATION-DATE: December 4, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|---------------------|------------|-------|---------|---------|
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| Dachman, Abraham | Chicago | IL | US | |
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| Maceneaney, Peter | Chicago | IL | US | |
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| Masutani, Yoshitaka | Tokyo | IL | JP | |
| Lan, Li | Naperville | | US | |

US-CL-CURRENT: 382/128; 382/154, 382/190

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| Term | Documents |
|---------------|-----------|
| MATRIX | 630210 |
| MATRICES | 81461 |
| MATRIXES | 9404 |
| ISOTROPIC\$6 | 0 |
| ISOTROPIC | 52852 |
| ISOTROPIAHY | 1 |
| ISOTROPICALLY | 2 |
| ISOTROPICAL | 391 |

| | |
|---|---|
| ISOTROPICALITY | 1 |
| ISOTROPICALIY | 2 |
| ISOTROPICALL | 1 |
| (L47 AND ((ISOTROPIC\$6) WITH (MATRIX))).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD. | 1 |

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| | | <i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i> | |
| <input type="checkbox"/> | L66 | L65 and ((isotropic\$6) with (high\$4 or improv\$3 or increas\$3 or greater) with (resolv\$8 or resolution) with (three-dimension\$6 or "three dimension\$6" or "3d" or "3-dimension\$6" or "3 dimension\$6" or "3-d")) with (slic\$4 or plan\$2 or imag\$4 or slab)) | 0 |
| <input type="checkbox"/> | L65 | L55 and ((isotropic\$6) with (matrix)) | 44 |
| <input type="checkbox"/> | L64 | L56 and ((isotropic\$6) with (high\$4 or improv\$3 or increas\$3 or greater) with (resolv\$8 or resolution) with (three-dimension\$6 or "three dimension\$6" or "3d" or "3-dimension\$6" or "3 dimension\$6" or "3-d")) with (slic\$4 or plan\$2 or imag\$4 or slab)) | 12 |
| <input type="checkbox"/> | L63 | L62 and ((isotropic\$6) with (high\$4 or improv\$3 or increas\$3 or greater) with (resolv\$8 or resolution) with (three-dimension\$6 or "three dimension\$6" or "3d" or "3-dimension\$6" or "3 dimension\$6" or "3-d")) with (slic\$4 or plan\$2 or imag\$4 or slab)) | 3 |
| <input type="checkbox"/> | L62 | L61 and (isotropic\$6) with (((high\$4 or improv\$3 or increas\$3 or greater) with (resolv\$8 or resolution)) with (three-dimension\$6 or "three dimension\$6" or "3d" or "3-dimension\$6" or "3 dimension\$6" or "3-d" or (voxel or (volume with element))))) | 21 |
| <input type="checkbox"/> | L61 | L60 and ((diagnosis or diagnostic or multispectral\$2 or tissue or medical) with (slic\$4 or plan\$2 or imag\$4 or slab)) | 53 |
| <input type="checkbox"/> | L60 | L59 and (diagnosis or diagnostic or multispectral\$2 or tissue or medical) | 69 |
| <input type="checkbox"/> | L59 | L58 and ((register\$4 or combin\$3 or merg\$4) with (slic\$4 or plan\$2 or imag\$4 or slab)) | 82 |
| <input type="checkbox"/> | L58 | L56 and (((high\$4 or improv\$3 or increas\$3 or greater) with (resolv\$8 or resolution)) with (three-dimension\$6 or "three dimension\$6" or "3d" or "3-dimension\$6" or "3 dimension\$6" or "3-d" or (voxel or (volume with element)))) with (slic\$4 or plan\$2 or imag\$4 or slab)) | 112 |
| <input type="checkbox"/> | L57 | L56 and ((isotropic\$6) with (matrix)) | 0 |
| <input type="checkbox"/> | L56 | L55 and (((high\$4 or improv\$3 or increas\$3 or greater) with (resolv\$8 or resolution)) with (three-dimension\$6 or "three dimension\$6" or "3d" or "3-dimension\$6" or "3 dimension\$6" or "3-d" or (voxel or (volume with element))))) | 134 |
| <input type="checkbox"/> | L55 | I22 and ((three-dimension\$6 or "three dimension\$6" or "3d" or "3-dimension\$6" or "3 dimension\$6") with (slic\$4 or plan\$2 or imag\$4)) | 1723 |
| <input type="checkbox"/> | L54 | L47 and (((high\$4 or improv\$3 or increas\$3 or greater) with (resolv\$8 or resolution)) with (three-dimension\$6 or "three dimension\$6" or "3d" or "3-dimension\$6" or "3 dimension\$6" or "3-d" or (voxel or (volume with element))))) | 26 |

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|--------------------------|-----|---|-------|
| <input type="checkbox"/> | L53 | L47 and ((isotropic\$6) with (matrix)) | 1 |
| <input type="checkbox"/> | L52 | L51 and ((isotropic\$6) with (matrix)) | 0 |
| <input type="checkbox"/> | L51 | L50 and (register\$4 or combin\$3 or merg\$4) | 21 |
| | | L49 and (((isotropic\$6) with (high\$4 or improv\$3 or increas\$3 or greater) with (resolv\$8 or resolution)) with (three-dimension\$6 or "three dimension\$6" or "3d" or "3-dimension\$6" or "3 dimension\$6" or "3-d" or (voxel or (volume with element))))) | 22 |
| <input type="checkbox"/> | L49 | L48 and ((isotropic\$6) with (high\$4 or improv\$3 or increas\$3 or greater) with (resolv\$8 or resolution)) | 26 |
| <input type="checkbox"/> | L48 | L47 and (slic\$4 or plan\$2 or imag\$4) | 38 |
| <input type="checkbox"/> | L47 | L12 and ((isotropic\$6) with (voxel or (volume with element))) | 38 |
| <input type="checkbox"/> | L46 | L42 and ((isotropic\$6) with (high\$4) with (resolv\$8 or resolution)) | 25 |
| <input type="checkbox"/> | L45 | L43 and ((isotropic\$6) with (high\$4) with (resolv\$8 or resolution)) | 6 |
| <input type="checkbox"/> | L44 | L43 and ((isotropic\$6) with (matrix)) | 0 |
| <input type="checkbox"/> | L43 | L42 and (unknown or missing or undetermin\$4 or ("not" with known)) | 37 |
| <input type="checkbox"/> | L42 | L41 and (matrix) | 80 |
| <input type="checkbox"/> | L41 | L40 and (slic\$4 or plan\$2 or imag\$4) | 104 |
| <input type="checkbox"/> | L40 | L39 and (three-dimension\$6 or "three dimension\$6" or "3d" or "3-dimension\$6" or "3 dimension\$6" or "3-d") | 107 |
| <input type="checkbox"/> | L39 | L38 and ((high\$4 or low\$4 or lowering) with (resolv\$8 or resolution)) | 111 |
| <input type="checkbox"/> | L38 | L37 and ((voxel or (volume with element)) with (resolv\$8 or resolution)) | 111 |
| <input type="checkbox"/> | L37 | L22 and ((high\$4 or low\$5) with (resolv\$8 or resolution)) | 5357 |
| <input type="checkbox"/> | L36 | L35 and (three-dimension\$6 or "three dimension\$6" or "3d" or "3-dimension\$6" or "3 dimension\$6") | 3 |
| <input type="checkbox"/> | L35 | L24 and (((high\$4 or low\$4 or lowering or different) with (resolv\$8 or resolution)) with (isotropic\$6)) | 7 |
| <input type="checkbox"/> | L34 | L32 and (voxel or (volume with element)) | 4 |
| <input type="checkbox"/> | L33 | L32 and ((voxel or (volume with element)) with (resolv\$8 or resolution)) | 0 |
| <input type="checkbox"/> | L32 | L31 and (slic\$4 or plan\$2 or imag\$4) | 20 |
| <input type="checkbox"/> | L31 | L30 and (three-dimension\$6 or "three dimension\$6" or "3d" or "3-dimension\$6" or "3 dimension\$6") | 20 |
| <input type="checkbox"/> | L30 | L24 and ((high\$4 or low\$4 or lowering or different) with (resolv\$8 or resolution)) | 90 |
| <input type="checkbox"/> | L29 | L28 and (three-dimension\$6 or "three dimension\$6" or "3d" or "3-dimension\$6" or "3 dimension\$6") | 4 |
| <input type="checkbox"/> | L28 | L27 and (slic\$4 or plan\$2 or imag\$4) | 8 |
| <input type="checkbox"/> | L27 | L26 and (voxel or (volume with element)) | 9 |
| <input type="checkbox"/> | L26 | L24 and ((high\$4 or low\$4 or lowering) with (resolv\$8 or resolution)) | 87 |
| <input type="checkbox"/> | L25 | L24 and ((high\$4 or low\$5) with (resolv\$8 or resolution)) | 87 |
| <input type="checkbox"/> | L24 | L23 and ((isotropic\$6) with (matrix)) | 1064 |
| <input type="checkbox"/> | L23 | L22 and (matrix) | 12688 |

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|------------------------------|---|-------|
| <input type="checkbox"/> L22 | (isotropic\$6) | 57767 |
| | DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=ADJ | |
| <input type="checkbox"/> L21 | L20 and (unknown or missing) | 12 |
| <input type="checkbox"/> L20 | L19 and ((magnetic adj resonance) or MRI or NMR) | 39 |
| <input type="checkbox"/> L19 | L18 and ((high\$4 or low\$5) with (resolv\$8 or resolution)) | 54 |
| <input type="checkbox"/> L18 | L17 and ((isotropic\$6) with (resolv\$8 or resolution)) | 58 |
| <input type="checkbox"/> L17 | L16 and (high\$4 or low\$5) | 206 |
| <input type="checkbox"/> L16 | L15 and (scan\$5 or imag\$5) | 207 |
| <input type="checkbox"/> L15 | L14 and (direction or perpendicular\$3 or orthogonal\$3) | 218 |
| <input type="checkbox"/> L14 | L7 and (three-dimension\$6 or "three dimension\$6" or "3d" or "3-dimension\$6" or "3 dimension\$6") | 229 |
| <input type="checkbox"/> L13 | L12 and ((magnetic adj resonance) or MRI or NMR) | 44 |
| <input type="checkbox"/> L12 | L11 and ((isotropic\$6) with (resolv\$8 or resolution)) | 59 |
| <input type="checkbox"/> L11 | L10 and (high\$4 or low\$5) | 262 |
| <input type="checkbox"/> L10 | L9 and (scan\$5 or imag\$5) | 263 |
| <input type="checkbox"/> L9 | L8 and (direction or perpendicular\$3 or orthogonal\$3) | 283 |
| <input type="checkbox"/> L8 | L7 and (three-dimension\$6 or dimension\$6) | 295 |
| <input type="checkbox"/> L7 | L6 and (solv\$4 or determin\$6 or calculat\$4 or estimat\$6) | 316 |
| <input type="checkbox"/> L6 | L5 and (value) | 317 |
| <input type="checkbox"/> L5 | L4 and (voxel or (volume with element)) | 346 |
| <input type="checkbox"/> L4 | L3 and (matrix) | 2966 |
| <input type="checkbox"/> L3 | L2 and (resolv\$8 or resolution) | 7111 |
| <input type="checkbox"/> L2 | L1 and (slic\$4 or plan\$2) | 27265 |
| <input type="checkbox"/> L1 | (isotropic\$6) | 55968 |

END OF SEARCH HISTORY